

HIGH YIELD

- Long operation with higher yield
- Effective heat dissipation via specially manufactured rear side

SMART O&M

- Identify installation problems by smart detection

EASY INSTALLATION

- DC MC4 terminals and AC busbar clamp terminals
- Perfect cable length to cover all scenarios
- One click settings for all

SAFE & RELIABLE

- 100% meet safety requirements
- No high DC voltage, No arc risk
- Harsh enviroment protection IP67 & C5

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SUNGROW
Clean power for all

Type designation	S450S	S800S
Input (DC)		
Recommended PV module power range	375 W - 570 W	
Max. PV input voltage	60 V	
Min. PV input voltage / Startup input voltage	16 V / 22 V	
MPPT voltage range	16 V - 60 V	
No. of independent MPP inputs	1	2
Max. PV input current	16 A * 1	16 A * 2
Max. DC short-circuit current	20 A * 1	20 A * 2
Output (AC)		
Grid type	Single phase	
Rated AC output power	450 W	800 W
Max. AC output apparent power	450 VA	800 VA
Max. AC output current	2.1 A	3.6 A
Rated AC output current (at 230 V)	2.0 A	3.5 A
Rated AC voltage	220 V / 230 V / 240 V	
AC voltage range *	154 V - 277 V	
Rated grid frequency	50 Hz / 60 Hz	
Grid frequency range	45 Hz - 55 Hz	
	55 Hz - 65 Hz	
Harmonic (THD)	< 5 % (at rated power)	
Power factor at rated power / Adjustable power factor	> 0.99 / 0.8 leading - 0.8 lagging	
Efficiency		
Max. efficiency	96.2%	
European efficiency	95.4%	
Protection & function		
Grid monitoring	Yes	
Leakage current protection	Yes	
PV module-level monitoring	Yes	
Rapid shutdown	Yes	
Surge protection	AC type II	
General data		
Dimensions (W * H * D)	238 mm * 168 mm * 42 mm	265 mm * 226 mm * 42 mm
Weight	2.5 kg	3.5 kg
Mounting method	Bracket Mounted	
Topology	High Frequency Transformers	
Degree of protection	IP67	
Night power consumption	< 50 mW	
Operating ambient temperature range	-40 °C - 65 °C	
Allowable relative humidity range (non-condensing)	100 %	
Cooling method	Natural cooling	
Max. operating altitude	2000 m	
Display	LED	
Communication	WLAN	
DC connection type	Stäubli MC4	
AC connection type	Plug and play connector	
Certification compliance	EN / IEC 62109 - 1 / - 2, EN / IEC 61683, EN 50530, EN / IEC 61000 - 6 - 1 / - 2 / - 3 / - 4, VDE 4105, VDE 0126, UNE 217002, CEI0-21, IEC 60529, IEC 62116, EN 50549, PSE RFG, EN 301489, EN 300328, EN / IEC 62311, ETSI EN 303 645	

* Voltage could vary within the supporting range according to the application scenario.

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